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rel resulted in the pruning of over two hundred branches. A great many other trees showed equal evidence of the relish of squirrels for the seed, which they all obtained in the same wasteful manner; but this destruction can last only a short time, as the fruit falls very promptly when ripe.

WM. TRELEASE.

Madison, Wis., May 24.

## The claims of political science.

Is there any valid reason why political science should not take its natural place among the sciences? That it has no such place is evident from the fact that it is almost wholly excluded from all the scientific journals that profess to be devoted to all the sciences. How many articles on political science have ever appeared in the American journal of science, in Nature, in Science? Can any other science be named of which the same can be said? It seems to be assumed that all that is ever said about national affairs must necessarily be of a partisan character, and be said, not for the sake of truth, but to serve some political party or private interest. Yet any one who has any faith in humanity must admit that a large amount of disinterested political work is being done. Those who deny this for the present will generally admit it for the past, and the present is always becoming the past. But, even if this were not the case, it would still be true that scientific politics is theoretically possible.

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Most sciences are more or less practical; i.e., they furnish the principles which underlie the useful arts. From pure science to pure art there are always three somewhat distinct steps. The first is the discovery of scientific principles; the second is the invention of the methods of applying these principles; and the third is the actual application of the principles. The first

two or the last two of these steps may sometimes be so intimately blended as to render it difficult to detect the line of demarcation between them; but theoretically the three steps are always present.

If, therefore, there is a political science, this must also be true of it. We will assume that there is such a science; that the operations of a state constitute a department of natural phenomena, which, like other natural phenomena, take place according to uniform laws. The pure science, then, consists in the discovery of these laws. The intermediate, or inventive, stage embraces the devising of methods for controlling the phenomena so as to cause them to follow

advantageous channels, just as water, wind, and electricity are controlled. The third stage is simply the carrying-out of the methods thus devised.

Political science is one of the cases in which, in its present state at least, the first and second steps are very much blended. They are both embraced in legislation, which includes both discovery and invention. Yet the pure investigator is not entirely wanting; and the *ideal politician* or statesman would correctly represent the first stage, or pure political science. The executive branch of government fairly coincides with the third, or pure art, stage. The judiciary is properly legislative or inventive; but, in fact, it often performs executive or technologic functions.

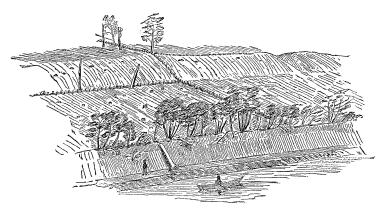
Why, then, does not politics form a legitimate subject of scientific investigation? Why might not its discussion in strictly scientific societies and journals be permitted and encouraged? And would not this be one of the best checks that could be set to the mad surge of unreasoning partisanship that now fills the columns of the public press?

It will probably be replied, that, the moment a scientific man should attempt to discuss current political issues, he would lose his scientific attitude and spirit. Were he to do so, he would certainly forfeit the respect and confidence of scientific men; but this would be contrary to our hypothesis that the discussion be scientific.

LESTER F. WARD.

## Some Indiana glaciology.

In Science, No. 22, I gave some account of certain glacial scratches in Montgomery county which showed a trend approximately at right angles to the direction of the first, or at least a former glacier. Since that date I have made a more thorough study of the region with much better instruments, and the results are worth recording. In the short note referred to, it is stated that Sugar Creek, a large eastern tributary of the Wabash, has a general south-westerly course through the county, about parallel with that of the Wabash, twenty or thirty miles to the north. In the bed of this stream there are glacial scratches, indicating a movement parallel with its course, referred to the first or Lake Erie glacier, whose course across the state, up the Maumee and down the Wabash, has been plainly shown. In the north-eastern part of the county, near the junction of Sugar and Lye creeks, the former stream runs along a ledge of subcarboniferous sandstone, which forms its northern bank. This



ledge is from three to five feet above average water-level, has no representation on the southern bank, and is exposed for perhaps a mile. Upon uncovering its surface, it is found to be planed as smooth as a floor, and deeply and closely grooved with glacial scratches, which trend directly across the stream and the course of the old glacier. The sandstone is, for the most part, fine-grained; but in some places it contains numerous small geodes, which beautifully indicate the direction of flow, each having a struck side to the north, and a protected sandstone ridge to the south. On top of the platform there lies a typical moraine, whose trend, being about at right angles to the scratches, indicates a terminal moraine. A section showed the following results: stiff blue clay, with